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Agrément Certificate

89/2153

Product Sheet 3 Issue 5

CORODRAIN GRP VALLEY TROUGH AND FLASHING RANGE

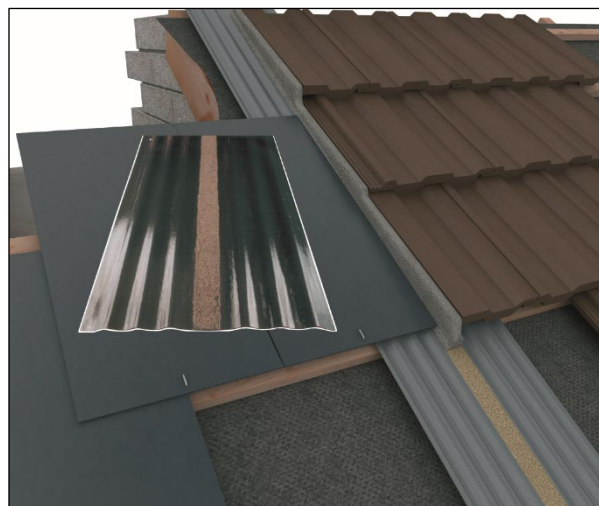
CORODRAIN GRP SECRET GUTTER TYPE C AND DRY FIX JOINING GUTTER DBG

This Agrément Certificate Product Sheet⁽¹⁾ relates to Corodrain GRP Secret Gutter Type C and Dry Fix Joining Gutter DBG, for use in slated or tiled roofs constructed in accordance with the relevant requirements of BS 5534 : 2014, as a seal at the junction of old and new roofs on terraced, semi-detached or extended houses.

(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production[†]
- formal three-yearly review[†].



KEY FACTORS ASSESSED

Weathertightness — as part of a complete roof, the products will resist the passage of moisture into the interior of the building (see section 6).

Properties in relation to fire — the products have not been classified for reaction to fire in accordance with BS EN 13501-1 : 2018 and their use is restricted by the national Building Regulations (see section 7).

Strength — the products have adequate strength to resist the normal loads and impacts associated with installation of the roof (see section 8).

Durability — under normal service conditions, the products will have a service life of at least 20 years (see section 10).

The BBA has awarded this Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Fifth issue: 20 October 2022

Originally certificated on 2 February 1989

Certificate amended on 7 May 2024 to update product name.

A handwritten signature in black ink, appearing to read 'Hardy Giesler'.

Hardy Giesler
Chief Executive Officer

The BBA is a UKAS accredited Inspection Body (No.4345).

This certificate has been amended on 7 May 2024 as part of a transition of The BBA Agrément Certificate scheme delivered under the BBA's ISO/IEC 17020 accreditation. Sections marked with the symbol † are not issued under accreditation.

Readers MUST check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly. Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon

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Regulations

In the opinion of the BBA, Corodrain GRP Secret Gutter Type C and Dry Fix Joining Gutter DBG, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):



The Building Regulations 2010 (England and Wales) (as amended)

Requirement	B4(1)	External fire spread
Comment:		Roofs incorporating the products are restricted by this Requirement in some circumstances. See sections 7.2 and 7.3 of this Certificate.
Requirement:	B4(2)	External fire spread
Comment:		The products may contribute to a roof being unrestricted by this Requirement. See section 7.1 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The products will contribute to a roof satisfying this Requirement. See section 6 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The products are acceptable. See section 10 and the <i>Installation</i> part of this Certificate.
Regulation:	7(2)	Materials and workmanship
Comment:		The products are restricted by this Regulation See sections 7.2 and 7.3 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)	Durability, workmanship and fitness of materials
Comment:		The use of the products satisfies the requirements of this Regulation. See section 10 and the <i>Installation</i> part of this Certificate.
Regulation:	8(3)	Durability, workmanship and fitness of materials
Comment:		The products are restricted by this Regulation. See sections 7.2 and 7.4 of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	2.6	Spread to neighbouring buildings
Comment:		The products are restricted by this Standard in some circumstances, with reference to clauses 2.6.4 ⁽¹⁾⁽²⁾ and 2.6.5 ⁽¹⁾⁽²⁾ . See sections 7.2 and 7.4 of this Certificate.
Standard:	2.7	Spread on external walls
Comment:		The products are restricted by this Standard in some circumstances, with reference to clause 2.7.1 ⁽¹⁾⁽²⁾ . See sections 7.2 and 7.4 of this Certificate.
Standard:	2.8	Spread from neighbouring buildings
Comment:		The products may contribute to a roof being unrestricted by this Standard, with reference to clause 2.8.1 ⁽¹⁾⁽²⁾ . See section 7.1 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The products will contribute to a roof satisfying clauses 3.10.1 ⁽¹⁾⁽²⁾ and 3.10.8 ⁽¹⁾⁽²⁾ of this Standard. See section 6 of this Certificate.

Standard: Comment:	7.1(a)	Statement of sustainability The products can contribute to meeting the relevant requirements of Regulation 9, Standards 1 to 6 and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.
Regulation: Comment:	12	Building standards applicable to conversions Comments in relation to the products under Regulation 9, Standards 1 to 6 also apply to this Regulation, with reference to clause 0.12.1 ⁽¹⁾⁽²⁾ and Schedule 6 ⁽¹⁾⁽²⁾ . (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).



The Building Regulations (Northern Ireland) 2012 (as amended)

Regulation: Comment:	23(1)(a)(i) (iii)(b)(i)	Fitness of materials and workmanship The products are acceptable. See section 10 and the <i>Installation</i> part of this Certificate.
Regulation: Comment:	23(2)	Fitness of materials and workmanship The products are restricted by this Regulation See sections 7.2 and 7.3 of this Certificate.
Regulation: Comment:	28(b)	Resistance of moisture and weather The products will contribute to a roof satisfying this Regulation. See section 6 of this Certificate.
Regulation: Comment:	36(a)	External fire spread Roofs incorporating the products are restricted by this Regulation in some circumstances. See sections 7.2 and 7.3 of this Certificate.
Regulation: Comment:	36(b)	External fire spread The products, when used as part of a complete roof, may contribute to a roof being unrestricted by this Regulation. See section 7.1 of this Certificate.

Construction (Design and Management) Regulations 2015

Construction (Design and Management) Regulations (Northern Ireland) 2016

In the opinion of the BBA, this Certificate does not include any content which relates to the obligations of the client, designer (including Principal Designer) and contractor (including Principal Contractor) under these Regulations.

Additional Information

NHBC Standards 2022

In the opinion of the BBA, Corodrain GRP Secret Gutter Type C and Dry Fix Joining Gutter DBG, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapter 7.2 *Pitched roofs*.

Technical Specification

1 Description

1.1 Corodrain GRP Secret Gutter Type C and Dry Fix Joining Gutter DBG are glass fibre/polyester laminate manufactured to the profiles illustrated in Figures 1 and 2.

Figure 1 Corodrain GRP Secret Gutter Type C

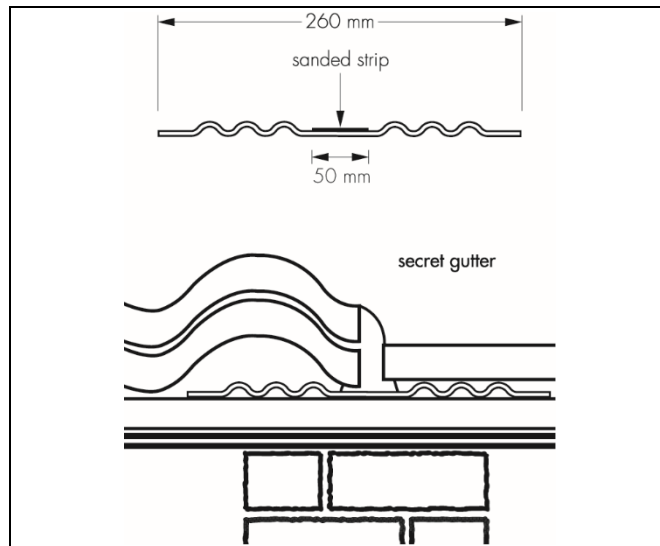
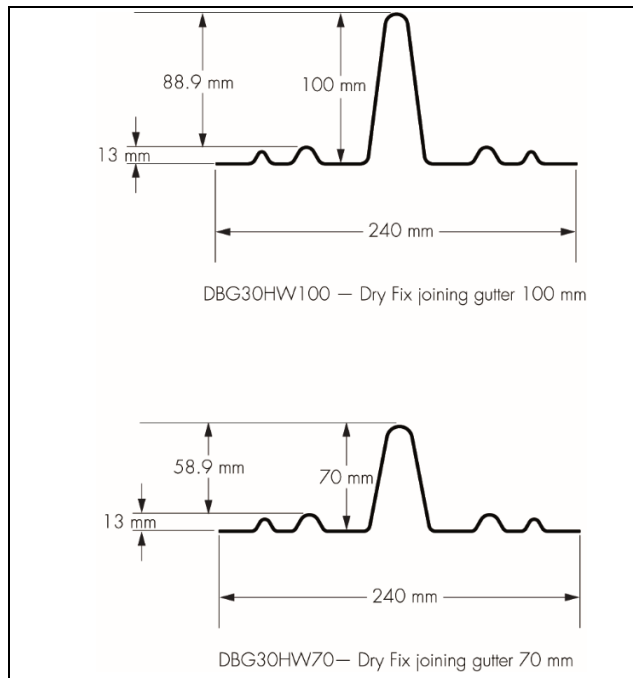


Figure 2 Corodrain GRP Dry Fix Joining Gutter DBG



1.2 The products are manufactured to the following specifications:

Width (mm)	260 (Type C)
	240 (Type DBG)
Length (m)	3.0 (Type C)
	3.0 (Type DBG)
Sanded strip width (mm)	50 (Type C)
Standard colour ⁽¹⁾	grey/blue.

(1) Other colours are available to order.

2 Manufacture

2.1 The products are manufactured in a continuous process. Resin is spread across a film into which glass rovings are evenly distributed and formed into a laminate. The required profile is shaped by wooden formers and allowed to cure.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

2.3 The management system of Ariel Plastics Limited has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by the BBA (Certificate 20/Q066).

3 Delivery and site handling

3.1 The products are delivered to site in packs of ten. Each pack bears the BBA logo incorporating the number of this Certificate.

3.2 Packs should be stored flat on a clean, level surface.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Corodrain GRP Secret Gutter Type C and Dry Fix Joining Gutter DBG.

Design Considerations

4 Use

Corodrain GRP Secret Gutter Type C and Dry Fix Joining Gutter DBG, when designed and installed in accordance with the relevant parts of BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6: 2013, are satisfactory for use in slated or tiled pitched roofs to seal the junction of old and new roofs to provide a weatherproof finish.

5 Practicability of installation

The products are designed to be installed by a roofing contractor experienced with these types of products.

6 Weathertightness



The products will adequately resist the passage of moisture to the interior of a building and so satisfy the requirements of the national Building Regulations.

7 Properties in relation to fire



7.1 Samples of GRP, representative of that used in the manufacture of the products, when tested in accordance with BS 476-3 : 2004, achieved an EXT.S.AB rating⁽¹⁾.

(1) Report reference 238195, issued by BRE Testing, is available from the Certificate holder upon request.

7.2 The Certificate holder has not declared a reaction to fire classification for the products to BS EN 13501-1 : 2018.



7.3 In England, Wales and Northern Ireland, the products, when used in pitches greater than 70°, excluding upstands, should not be used on buildings that have a storey at least 18 m above ground level and which contain: one or more dwellings, an institution, a room for residential purposes (excluding any room in a hostel, hotel or boarding house), student accommodation, care homes, sheltered housing, hospitals or dormitories in boarding schools and, additionally in Northern Ireland, nursing homes and places of lawful detention.



7.4 In Scotland, the products, when used in pitches greater than 70°, should not be used on buildings more than 1 m from a boundary or that have a storey more than 11 m above ground level.

8 Strength

The products will resist the normal impacts associated with installation and use.

9 Maintenance

No maintenance is necessary.

10 Durability



Under normal service conditions, the products will have a service life of at least 20 years.

Installation

11 General

11.1 Installation of Corodrain GRP Secret Gutter Type C and Dry Fix Joining Gutter DBG must be in accordance with the Certificate holder's instructions and the relevant recommendations of BS 5534 : 2014, BS 8000-0 : 2014, BS 8000-6 : 2013 and this Certificate.

11.2 The products must be cut to size with a fine-toothed saw and can accept holes being drilled using a sharp drill bit.

12 Procedure

Secret Gutter

12.1 The underlay and battens over the joint area of the separating wall must be made good. Battens may cross over the separating wall without trimming.

12.2 The adjoining roof must be prepared by replacing any nails in the first 130 mm, and cutting the tiles or slates in the straight line mid-way over the separating wall.

12.3 The gutter must be slid under undisturbed tiles or slates, approximately 115 mm, and nailed to the battens through drilled holes using nails of a quality acceptable to good roofing practice.

12.4 Consecutive lengths of valley trough must be laid allowing a 150 mm overlap at the joints and extending over the fascia board into the gutter.

12.5 The tiles or slates must be fixed with a butt joint over the centre of the trough, and bedded onto mortar or mastic laid on the sanded strip. The water channels must be left free from mortar or mastic.

Joining Gutter

12.6 The underlay and battens over the joint area of the separating wall must be made good. Battens may cross the separating wall without being trimmed.

12.7 The adjoining roof must be prepared by replacing any nails in the first 130 mm, and cutting the tiles or slates in the straight line mid-way over the separating wall.

12.8 The gutter must be slid under undisturbed tiles or slates, approximately 115 mm, and nailed to the battens through drilled holes using nails of a quality acceptable to good roofing practice.

12.9 Consecutive lengths of valley trough must be laid, allowing a 150 mm overlap at joints and extending over the fascia board into the gutter.

12.10 The adjacent slates and tiles must be fitted against the central upstand of the joining gutter. Adjoining roof tiles must be repaired, replaced and secured where necessary.

13 Finishing

Tiling must be carried out in accordance with the relevant clauses of BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2013.

14 Repair

Damaged lengths can be replaced by following the Certificate holder's instructions prior to completing the roof covering.

Technical Investigations

15 Tests

Tests were carried out and the results assessed to determine:

- density
- resin/glass ratio
- dimensions
- hardness
- tensile strength/elongation
- cross-breaking strength
- effect of elevated temperatures
- effect of water soak
- impact resistance.

16 Investigations

16.1 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

16.2 An assessment was made of the results of a fire test in accordance with BS 476-3 : 2004.

Bibliography

BS 476-3 : 2004 *Fire tests on building materials and structures — External fire exposure roof test*

BS 5534 : 2014 + A2 : 2018 *Slating and tiling for pitched roofs and vertical cladding — Code of practice*

BS 8000-0: 2014 *Workmanship on construction sites — Introduction and general principles*

BS 8000-6 : 2013 *Workmanship on building sites — Code of practice for slating and tiling of roofs and walls*

BS EN 13501-1 : 2018 *Fire classification of construction products and building elements — Classification using data from reaction to fire tests*

BS EN ISO 9001 : 2015 *Quality management systems — Requirements*

17 Conditions

17.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document – it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

17.2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

17.3 This Certificate will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

17.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

17.5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

17.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.